



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 5  
9311 GROH ROAD  
GROSSE ILE, MI 48138**

**MEMORANDUM**

**SUBJECT:** Round three vapor intrusion investigation data review for the Reilly Tar and Chemical Site

**FROM:** Keith Fusinski, PhD Toxicologist US EPA  
Superfund Division, Remedial Response Branch #1, Remedial Response Section #1

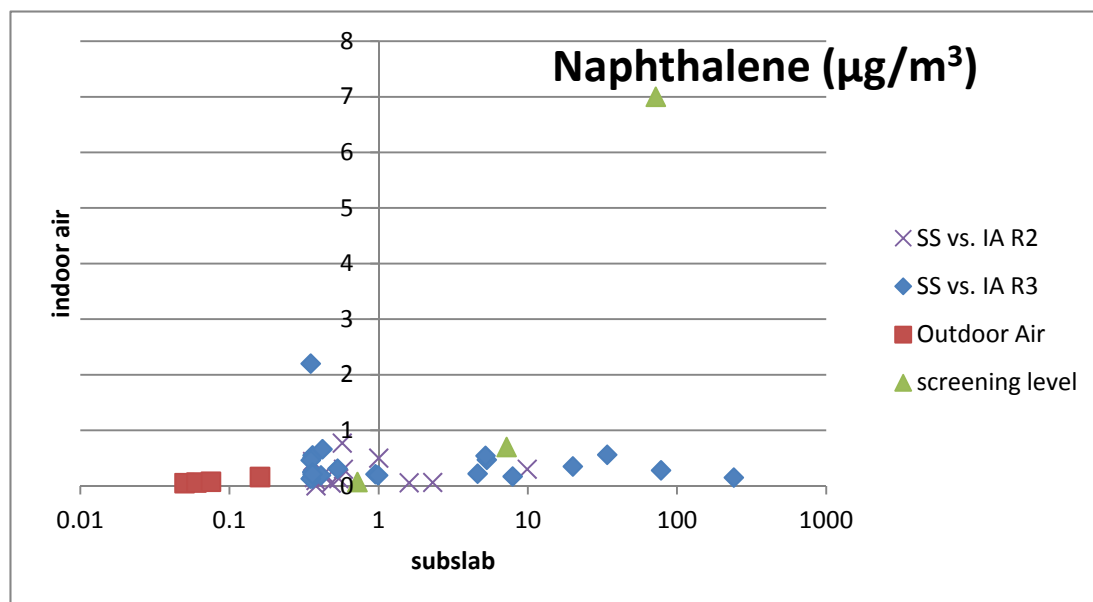
**TO** Michelle Kerr, Remedial Project Manager, US EPA  
Superfund Division, Remedial Response Branch #2, Remedial Response Section #6

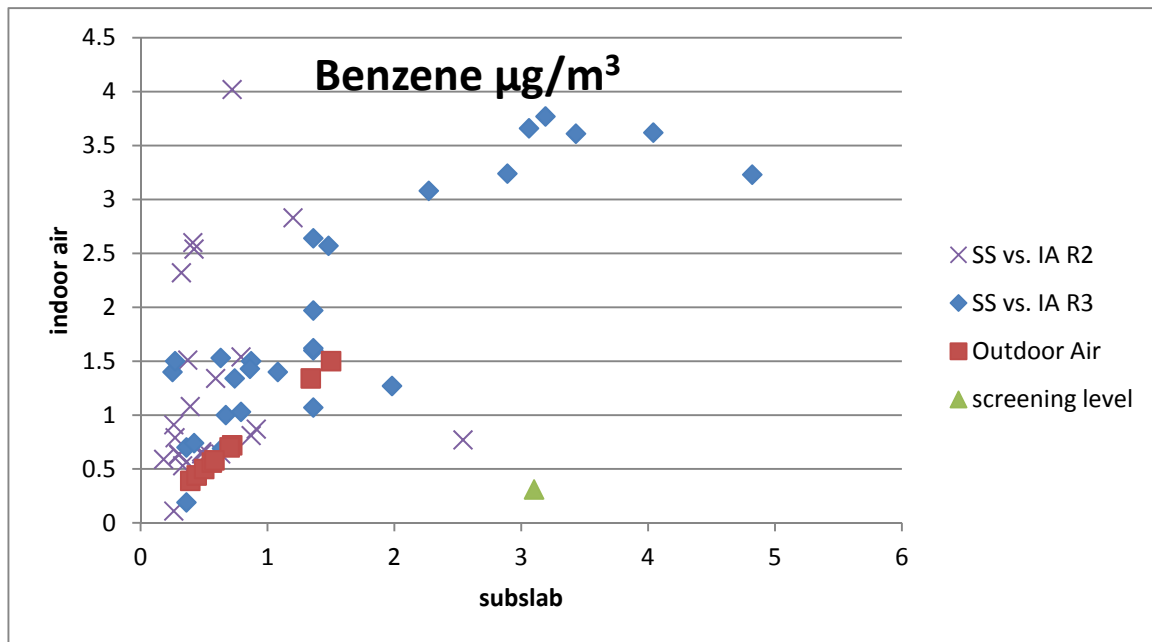
**DATE:** 8/22/2013

Upon review of the three rounds of subslab and two rounds of indoor air data collected at the Reilly Tar and Chemical Site, it has been determined the risk from vapor intrusion is within or below US EPA's acceptable risk range. Most data points show a risk of below  $1 \times 10^{-5}$  excess lifetime cancer risk (ELCR) or below a hazard index of 1. There are two sampling locations which have subslab concentrations of naphthalene above the  $1 \times 10^{-5}$  risk range and greater than ten times the indoor air levels. Indoor air concentrations at these two locations are below the  $1 \times 10^{-5}$  ELCR.

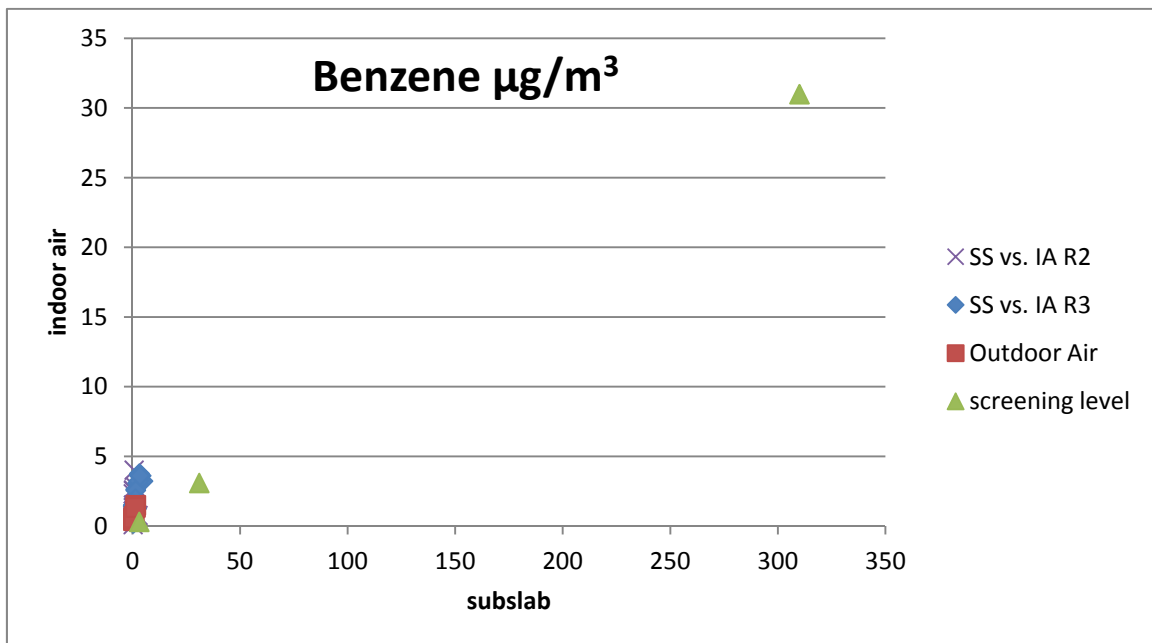
The contamination at the site has been in place for over 60 years and there are no plans for further development at the site. Therefore, it is reasonable to believe that the concentrations of volatile organic compounds (VOCs) and polyaromatic hydrocarbons (PAHs) will either remain constant or decrease over time. It has been determined after review of the data, that there is a complete vapor intrusion pathway at the site. However, the risks from exposure to indoor air of the buildings at the site are below or within the US EPA acceptable risk range.

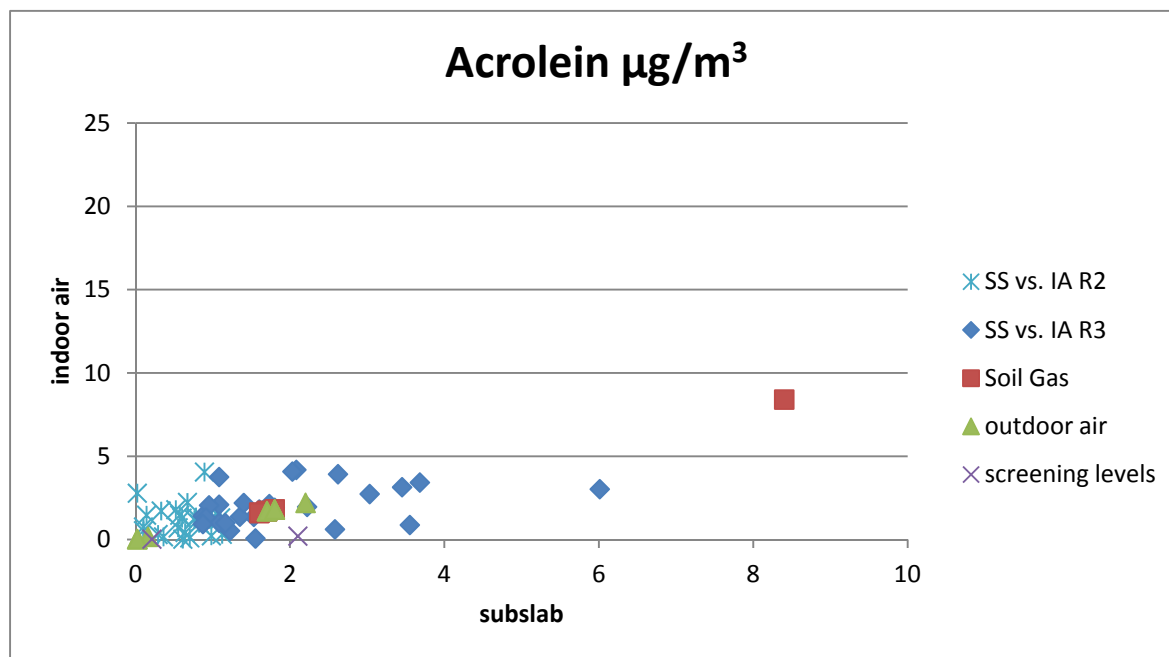
Based on the results of our investigation, it does not appear that an unacceptable risk exists from the vapor intrusion pathway at the Reilly Tar Site. Therefore, it is deemed appropriate to seal and vacate the sample probes at the Site.



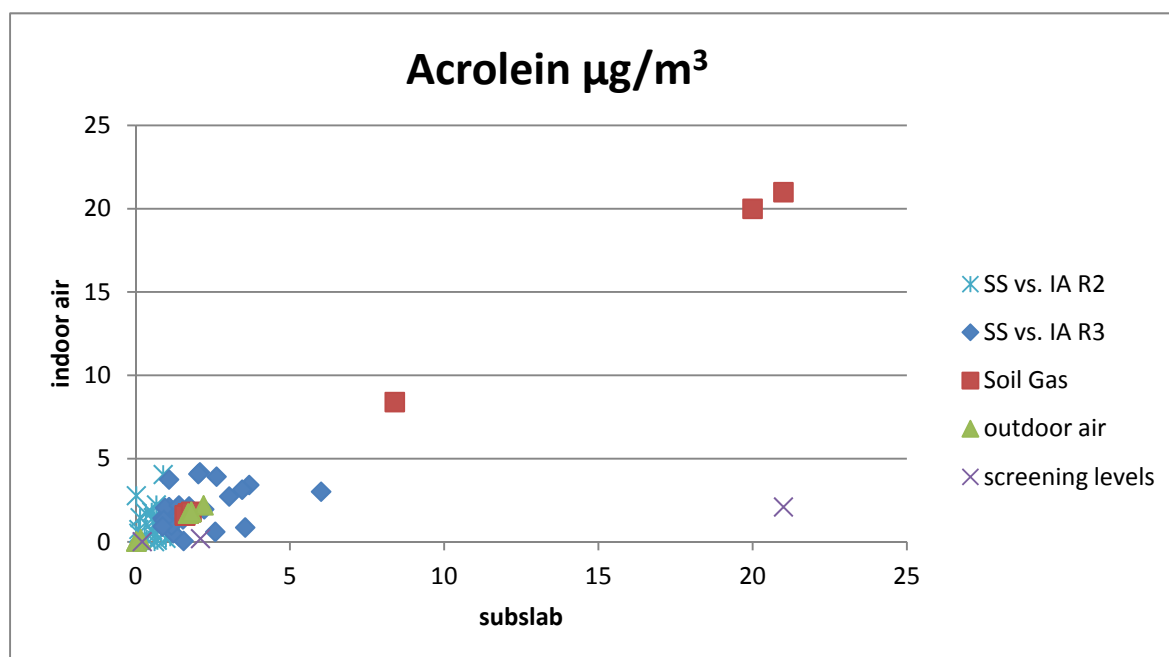


Benzene does not present a pattern consistent with vapor intrusion.





Acrolein is not a site-specific contaminant. Concentrations of acrolein in indoor air were similar to concentrations measured in outdoor air and are not a concern.

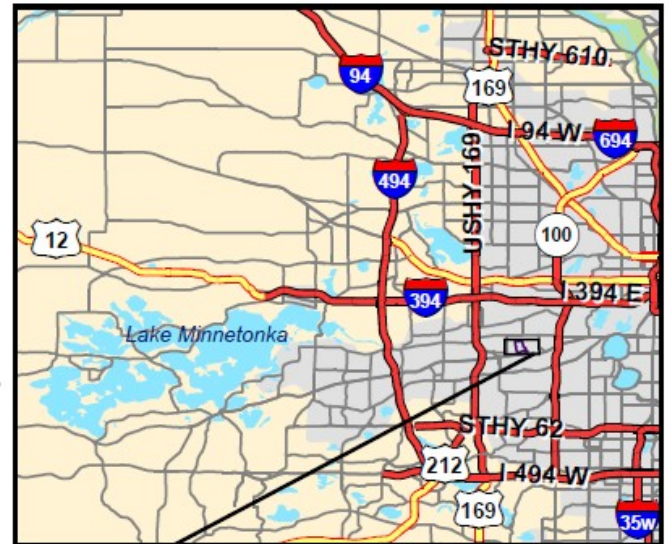


Reilly Tar and Chemical Corp.  
Hennepin County, MN

MND980609804



State



County



Site

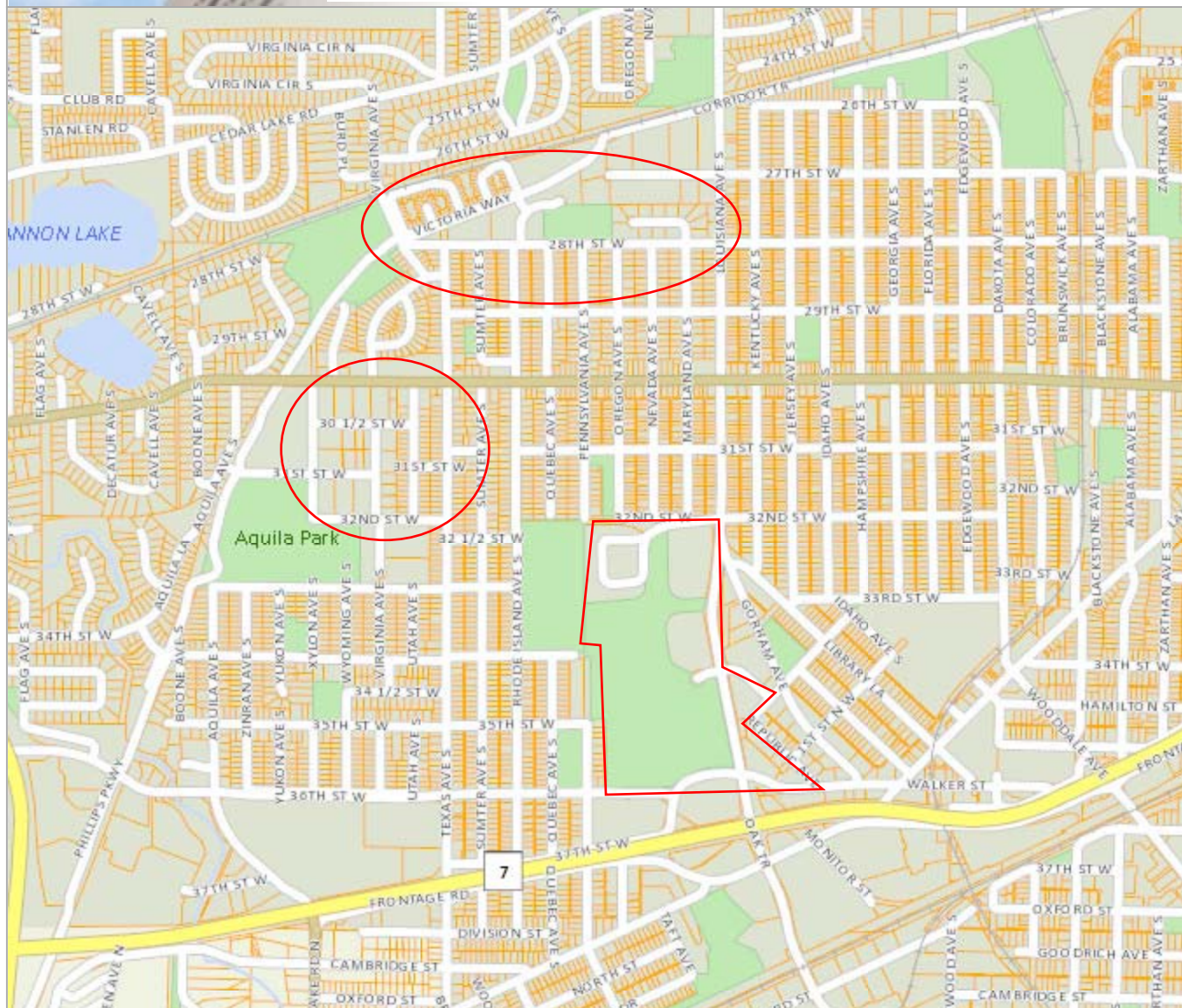




**Interactive  
Maps**

**Approximate Background Soil Gas Sample Locations  
Reilly Tar & Chemical Corp. Superfund Site  
Vapor Intrusion Investigation 9/2013**

**Property  
Map**



**NOTES:**

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Map Scale: 1" ≈ 1600 ft.

Print Date: 9/4/2013



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